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	Application No.	Applicant(s)	0/
Notice of Allowability	10/764,101	HARRINGTON ET AL	
	Examiner	Art Unit	-
	Jennifer Doan	2874	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in t	his application. If not included ication will be mailed in due co	ourse. THIS
1. \boxtimes This communication is responsive to <u>amendment filed on</u>	<u>8/2/07</u> .		
2. X The allowed claim(s) is/are <u>1-12,14-23,25-28,31 and 32.</u>			
3. ☐ Acknowledgment is made of a claim for foreign priority u a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have	ve been received.		
2. Certified copies of the priority documents have3. Copies of the certified copies of the priority described copies.			n from the
International Bureau (PCT Rule 17.2(a)).	ocuments have been received i	ii tiiis riatioriai stage applicatio	ii iioiii tile
* Certified copies not received:		•	
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	MENT of this application.		
 A SUBSTITUTE OATH OR DECLARATION must be subr INFORMAL PATENT APPLICATION (PTO-152) which given 			TICE OF
5. CORRECTED DRAWINGS (as "replacement sheets") mu	ust be submitted.		
(a) 🗌 including changes required by the Notice of Draftsper	rson's Patent Drawing Review ((PTO-948) attached	
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date			
(b) including changes required by the attached Examine Paper No./Mail Date			
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in			ack) of
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT 			te the
Attachment(s)	E 🗆 Notice of Info	rmal Datant Application	
 Notice of References Cited (PTO-892) D Notice of Draftperson's Patent Drawing Review (PTO-948) 		rmal Patent Application	
 Information Disclosure Statements (PTO/SB/08), 	Paper No./M	ail Date mendment/Comment	
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's S	tatement of Reasons for Allow	ance
	9.	Temife Doan	
		JENNIFER DO PRIMARY EXAM	MIN

DETAILED ACTION

Response to Amendment

1. Applicant's amendment filed on August 2, 2007 has been fully considered and entered.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

In line 6 of claims 9 and 23, please delete "ratio of approximately 2.1" and insert - ratio of approximately 2:1-- (correcting the typo error).

Reasons for Allowance

- 3. Claims 1-12, 14-23, 25-28, 31 and 32 are allowed.
- 4. The following is an examiner's statement of reasons for allowance:

The prior art of record fails to disclose or reasonably suggest all the limitations recited in claims 1 and 16. Specifically, the prior art of record fails to disclose a flexible, hollow waveguide for transmitting radiation in visible and IR regions, comprising a composite of dielectric, paired sulfide-containing materials forming a photonic, bandgap

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tube transmitting in the visible and IR regions in combination with the other limitations of claims 1 and 16.

Claims 2-8 depend from claim 1.

Claims 17-22 depend from claim 16.

The prior art of record also fails to disclose or reasonably suggest all the limitations recited in claim 9. Specifically, the prior art of record fails to disclose a flexible, hollow waveguide comprising a composite of dielectric materials disposed upon the metallic layer featuring disparate refractive indices with a ratio of approximately 2:1, wherein the composite of dielectric materials form sulfide-containing layers in combination with the other limitations of claim 9.

Claims 10-12, 14 and 15 depend from claim 9.

The prior art of record also fails to disclose or reasonably suggest all the limitations recited in claim 23. Specifically, the prior art of record fails to disclose a flexible, hollow waveguide comprising a composite of dielectric materials disposed upon the smooth inner bore surface of said transparent annular body, featuring disparate refractive indices with a ratio of approximately 2:1, wherein the composite of dielectric materials respectively comprise two sulfide layers in combination with the other limitations of claim 23.

Claims 25-27 depend from claim 23.

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The prior art of record also fails to disclose or reasonably suggest all the limitations recited in claim 28. Specifically, the prior art of record fails to disclose a method of fabricating a flexible, hollow waveguide using liquid phase deposition, comprising the steps of depositing two sulfide-containing layers, cadmium sulfide and lead sulfide, respectively, upon said metallic layer of step (a) in combination with the other limitations of claim 28.

The prior art of record also fails to disclose or reasonably suggest all the limitations recited in claim 31. Specifically, the prior art of record fails to disclose a method of fabricating a flexible, hollow waveguide using liquid phase deposition, comprising the steps of depositing at first layer of cadmium sulfide upon an inner, smooth bore surface of a hollow silica-glass tube; and depositing at least a second layer of lead sulfide over the first layer of cadmium sulfide in combination with the other limitations of claim 31.

Claim 32 depends from claim 31.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jennifer Doan whose telephone number is (571) 272-2346. The examiner can normally be reached on Monday to Thursday from 6:00am to 3:30pm, second Friday off.

- 6. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rodney Bovernick can be reached on (571) 272-2344. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.
- 7. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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